



Water-Data Report 2008

01377499 MUSQUAPSINK BROOK AT RIVER VALE, NJ

HACKENSACK RIVER BASIN

LOCATION.--Lat 40°59'32", long 74°01'23" referenced to North American Datum of 1983, Westwood Borough, Bergen County, NJ, Hydrologic Unit 02030103, at bridge on Harrington Avenue, 400 ft upstream from confluence with Pascack Brook in Westwood, 400 ft west from Sand Road, and 0.6 mi west from River Vale.

DRAINAGE AREA.--7.07 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999-2000, 2007-08.

REMARKS.--Cooperative Network Site Descriptor: Statewide Status, NJ Department of Environmental Protection Watershed Management Area 5.

COOPERATION.--Physical measurements and samples for laboratory analyses were provided by personnel of the NJ Department of Environmental Protection. Determinations of dissolved ammonia, dissolved orthophosphate, and suspended residue were performed by the NJ Department of Health and Senior Services, Environmental and Chemical Laboratory.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Part 1 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	Time	Turbidity white light, det ang 90+/-30 corrctd	UV absorb- ance, 254 nm, wat flt units	UV absorb- ance, 280 nm, wat flt units	Baro- metric pres- sure, mm Hg	Dis- solved oxygen, mg/L (00025)	Dis- solved oxygen, percent of sat- uration (00300)	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm (00095)	Temper- ature, air, deg C (25 degC (00020))	Temper- ature, water, deg C (00010)	Hard- ness, water, mg/L as CaCO ₃ (00900)	Calcium water, fltrd, mg/L (00915)
Nov 07...	1030	1.7	.122	.096	762	9.3	82	7.9	555	8.5	9.5	170	49.7
Feb 05...	1030	7.0	.154	.119	760	11.3	90	7.7	576	6.5	5.6	160	47.9
Jun 11...	1030	1.8	.117	.088	762	5.4	64	7.6	641	25.5	22.9	190	58.2
Aug 07...	1030	2.6	.245	.185	755	5.5	64	7.3	331	25.5	22.5	95	28.4

01377499 MUSQUAPSINK BROOK AT RIVER VALE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 2 of 5

[Remark codes: <, less than; E, estimated; M, presence verified but not quantified.]

Date	ANC, wat unf fixed						Residue water, filtrd,			Residue on evap.			Ammonia	
	Magnes- ium, water, filtrd, mg/L (00925)	Potas- sium, water, filtrd, mg/L (00935)	Sodium, water, filtrd, mg/L (00930)	end pt, lab, mg/L as CaCO ₃	Chlor- ide, water, filtrd, mg/L (00940)	Fluor- ide, water, filtrd, mg/L (00950)	Silica, water, filtrd, mg/L as SiO ₂	Sulfate water, filtrd, mg/L (00945)	consti- tuents mg/L (70301)	180degC wat flt mg/L (70300)	total non- filter- able, mg/L (00530)	org-N, water, filtrd, mg/L (00623)	Ammonia water, filtrd, mg/L (00608)	
Nov 07...	11.1	2.17	37.8	130	82.0	E.07	11.2	20.2	E298	341	4	.47	.045	
Feb 05...	8.99	1.96	53.5	109	97.7	<.12	10.4	19.1	311	317	2	.35	.069	
Jun 11...	11.6	2.18	47.9	145	98.7	<.12	11.7	18.7	339	375	2	.46	.073	
Aug 07...	5.83	2.32	25.8	70	48.6	<.12	6.9	11.4	175	201	2	.69	.055	

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 3 of 5

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Date	Ortho- phosphate, water, filtrd, mg/L as P (00671)						Inor- ganic carbon, suspd sediment			Organic carbon, suspd sediment			Arsenic water, filtrd, μg/L (01000)	
	Total nitro- gen, water, filtrd, mg/L as P (00602)	Total nitro- gen, water, unfiltrd mg/L (00600)	Phos- phorus, water, filtrd, mg/L as P (00666)	Phos- phorus, water, unfiltrd, mg/L as P (00665)	Total carbon, suspd sediment mg/L (00694)	Total carbon, suspd sediment mg/L (00688)	Organic carbon, suspd sediment mg/L (00689)	Arsenic water, filtrd, μg/L (00681)	Arsenic water, unfiltrd μg/L (01002)					
Nov 07...	1.31	.04	1.8	1.8	.016	.036	.061	.3	<.04	.3	3.5	--	--	
Feb 05...	1.39	.12	1.7	1.9	.012	.024	.057	.8	<.04	.8	3.9	.46	.76	
Jun 11...	.75	E.03	1.2	E1.2	.029	.067	.086	.3	M	.3	3.8	--	--	
Aug 07...	.74	.05	1.4	1.5	.074	.091	.110	.4	<.04	.4	7.1	1.3	1.4	

01377499 MUSQUAPSINK BROOK AT RIVER VALE, NJ—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Part 4 of 5

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Date	Barium, water, unfltrd recover -able, μg/L (01007)	Beryll- ium, water, unfltrd recover -able, μg/L (01012)	Boron, water, unfltrd recover -able, μg/L (01020)	Boron, water, unfltrd recover -able, μg/L (01022)	Cadmium water, unfltrd recover -able, μg/L (01027)	Chrom- ium, water, unfltrd recover -able, μg/L (01034)	Copper, water, unfltrd recover -able, μg/L (01042)	Iron, water, unfltrd recover -able, μg/L (01045)	Lead, water, unfltrd recover -able, μg/L (01051)	Mangan- ese, water, unfltrd recover -able, μg/L (01055)	Mercury water, unfltrd recover -able, μg/L (71900)	Nickel, water, unfltrd recover -able, μg/L (01067)	Selen- ium, water, unfltrd recover -able, μg/L (01147)
Nov 07...	--	--	34	--	--	--	--	--	--	--	--	--	--
Feb 05...	89.2	<.04	26	21	.03	.47	2.2	495	1.05	157	<.010	.75	.17
Jun 11...	--	--	34	--	--	--	--	--	--	--	--	--	--
Aug 07...	61.4	<.04	28	29	E.01	E.35	4.9	180	.69	39.9	<.010	.69	.22

WATER-QUALITY DATA
WATER YEAR OCTOBER 2007
TO SEPTEMBER 2008

Part 5 of 5

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quantified.]

Date	Silver, water, unfltrd recover -able, μg/L (01077)	Zinc, water, unfltrd recover -able, μg/L (01092)
Nov 07...	--	--
Feb 05...	<.02	16.1
Jun 11...	--	--
Aug 07...	<.02	2.8